

06=10=2011=Формула для  $\ln(x^2 - x + 1)$  6-ти рядная=000

$$S(x) = \sum_{k=0}^{\infty} (A(k) + B(k) + C(k) + D(k) + E(k) + F(k)) = x + \ln(x^2 - x + 1) = \frac{1}{2}x^2 Q_0$$

$$Q_0 = \frac{S(x)}{A(0)}$$

$$Q_k = 1 + \frac{1}{\frac{A(k)}{B(k)} - \frac{\frac{A(k)}{B(k)} C(k)}{B(k) + C(k) - \frac{B(k)D(k)}{C(k) + D(k) - \frac{C(k)E(k)}{D(k) + E(k) - \frac{D(k)F(k)}{E(k) + F(k) - \frac{E(k)A(k+1)}{A(k+1) + \frac{F(k)}{Q_{k+1}}}}}}$$

$$S(x) = \sum_{k=0}^{\infty} (A(k) + B(k) + C(k) + D(k) + E(k) + F(k)) = x + \ln(x^2 - x + 1) = \frac{1}{2}x^2 Q_0$$

$$Q_0 = \frac{S(x)}{A(0)} = \frac{x + \ln(x^2 - x + 1)}{\frac{1}{2}x^2} = 2 \frac{x + \ln(x^2 - x + 1)}{x^2}$$

$$Q_k = 1 + 4x \frac{(3k+1)}{6k+3 - \frac{x(6k+3)^2}{12k+8+6xk+3x+8x - \frac{(3k+2)^2}{6k+5-6xk-4x-x - \frac{(6k+5)^2}{3k+3+6xk+5x-9x - \frac{(k+1)^2}{6k+7+3xk+3x-x - \frac{(6k+7)^2}{x(6k+7) - \frac{6k+8}{Q_{k+1}}}}}}$$

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